

California State Water Resources Control Board
California Department of Water Resources
California Department of Public Health



**CERTIFICATION FOR
COMPLIANCE WITH WATER METERING REQUIREMENTS
FOR FUNDING APPLICATIONS**

In 2004, Assembly Bill 2572 added section 529.5 to the Water Code, providing that, commencing January 1, 2010, urban water suppliers must meet certain volumetric pricing and water metering requirements in order to apply for permits for new or expanded water supply, or state financial assistance for the following types of projects:

1. wastewater treatment projects
2. water use efficiency projects (including water recycling projects)
3. drinking water treatment projects

For the purposes of compliance with Section 529.5, a "water use efficiency project" means an action or series of actions that ensure or enhance the efficient use of water or result in the conservation of water supplies.

Please consult with your legal counsel and review sections 525 through 529.7 of the Water Code before completing this certification.

Applicants Affected

This requirement applies to urban water suppliers.

"Urban water supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers.

When Certification is Required

State Water Resources Control Board (SWRCB): The application for financial assistance must include a completed and signed certification form demonstrating compliance with the water metering requirements.

Department of Water Resources (DWR) funding applications: This certification must be completed and submitted with the funding application. Check the specific proposal solicitation package for directions on applicability and submittal instructions.

Department of Public Health (DPH) Safe Drinking Water State Revolving Fund Program: This certification must be completed and submitted with the executed Notice of Acceptance of Application (NOAA).

California State Water Resources Control Board
California Department of Water Resources
California Department of Public Health



**CERTIFICATION FOR
COMPLIANCE WITH WATER METERING REQUIREMENTS
FOR FUNDING APPLICATIONS**

Funding Agency name: California Department of Water Resources
Funding Program name: IRWMP Prop 84
Applicant (Agency name): City of Patterson/San Luis Delta Mendota Water Authority
Westside-San Joaquin Regional Planning
Project Title (as shown on application form): Grant Application

Please check one of the boxes below and sign and date this form.

☐ As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the agency is not an urban water supplier, as that term is understood pursuant to the provisions of section 529.5 of the Water Code.

☒ As the authorized representative for the applicant agency, I certify under penalty of perjury under the laws of the State of California, that the applicant agency has fully complied with the provisions of Division 1, Chapter 8, Article 3.5 of the California Water Code (sections 525 through 529.7 inclusive) and that ordinances, rules, or regulations have been duly adopted and are in effect as of this date.

I understand that the Funding Agency will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification Statement may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Funding Agency may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Mike Willett
Name of Authorized Representative
(Please print)

Michael Willett
Signature

Director of Public Works
Title

9-23-10
Date

Note: Table 1 documents Status of Past and Current BMP implementation.

Name of Signatory Mike Willett Title of Signatory Public Works Director
Signature of signatory  Date 9/21/2010

Proposal Identification Number:	CUWCC Member? Yes/No
	Yes

Applicant Name: **City of Patterson**

Name:	Mike Willett
Phone:	209 895 8065
E-mail:	MWillett@cjpatterson.ca.us

Retailer (List Below)

Wholesaler (List Below)[illegible]

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18
				BMP Implemented by Retailers and/or Wholesalers / BMP			Compliance Options/Alternative Conservation Approaches (1)			BMP Is Exempt (2)			BMP Implementation Requirements Met				
BMPs required for Wholesaler Supplier	BMPs required for Retail Supplier	BMPs for Single/Multi-Family Residential Customers	BMP 1 Water Survey	Retailer Yes/No	Wholesaler Yes/No	Regional Yes/No	BMP Checklist	Flex Track	Gallons Per Capita Per Day GPCD	Not Cost Effective	Lack of Funding	Lack of Legal Authority	CUWCC MOU Requirement Met: Retailer Yes/No	CUWCC MOU Requirement Met: Wholesaler Yes/No	Date of BMP Report Submitted to CUWCC for (2007-2008) (MOU Signatories)	Date BMP Implementation Data Submitted to DWR in CUWCC Format (Non MOU Signatories) (3)	All Supporting Documents have been Submitted Yes/No
			BMP 2 Residential Plumbing Retrofit	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
			BMP 3 System Water Audits, Leak Detection	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
			BMP 3 Leak Repairs	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
			BMP 4 Metering with Commodity Rates for All New connections	Yes	na	na	✓						Yes	na	3/1/2010	na	Yes
			BMP 4 Retrofit of Existing Connections	Yes	na	na	✓						Yes	na	3/1/2010	na	Yes

C1	C2	C3	C4	C5	*C6	C7	**C8	**C9	**C10	C11	C12	C13	C14	C15	C16	C17	C18
	BMPs required for Wholesale Supplier	BMPs required for Retail Supplier	BMPs	BMP Implemented by Retailers and/or Wholesalers / BMP			Compliance Options/Alternative Conservation Approaches (1)			BMP Is Exempt (2)			BMP Implementation Requirements Met				
				Retailer Yes/No	Wholesaler Yes/No	Regional Yes/No	BMP Checklist	Flex Track	Gallons Per Capita Per Day GPCD	Not Cost Effective	Lack of Funding	Lack of Legal Authority	CUWCC MOU Requirement Met: Retailer Yes/No	CUWCC MOU Requirement Met: Wholesaler Yes/No	Date of BMP Report Submitted to CUWCC for (2007-2008) (MOU Signatories)	Date BMP Implementation Data Submitted to DWR in CUWCC Format (Non MOU Signatories) (3)	All Supporting Documents have been Submitted Yes/No
		✓	BMP 5 Large Landscape Conservation Programs and Incentives	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
		✓	BMP 6 High-Efficiency Washing Machine Rebate Programs	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
	✓	✓	BMP 7 Public Information	Yes	na	na	✓						Yes	na	3/1/2010	na	Yes
	✓	✓	BMP 8 School Education	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
			BMP 9 Conservation programs for Commercial, Industrial, and Institutional (CII) Accounts	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
	✓		BMP 10 Wholesale Agency Assistance Programs	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
		✓	BMP 11 Conservation Pricing	Yes	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
	✓		BMP 12 Conservation Coordinator	Yes	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
	✓		BMP 13 Water Waste Prohibitions	Yes	na	na	✓			✓			Yes	na	3/1/2010	na	Yes
		✓	BMP 14 Residential ULFT Replacement Programs	No	na	na	✓			✓			Yes	na	3/1/2010	na	Yes

*C6: Wholesaler may also be a retailer (supplying water to end water users)
 **C8, **C9, **, and C10: Agencies choosing an alternative conservation approach are responsible for achieving water savings equal or greater than that which they would have achieved using only BMP list.

(1) For details, please see: <http://www.cuwcc.org/mou/exhibit-1-bmp-definitions-schedules-requirements.aspx>.

(2) BMP is exempt based on cost-effectiveness, lack of funding, and lack of legal authority criteria as detailed in the CUWCC MOU

(3) Non MOU signatories must submit to DWR reports and supporting documents in the same format as CUWCC.

AB 1420 Self-Certification Statement Table 2

Provide Schedule, Budget, and Finance Plan to Demonstrate Commitment to Implement All BMP's to Become in Compliance with BMP Implementation - Commencing Within 1st Year of Agreement for Which Applicant Receives Funds.

Self-Certification Statement: The Urban Water Supplier and its authorized representative certifies, under penalty of perjury, that all information and claims, stated in this table, regarding compliance and implementation of the BMPs, including alternative conservation approaches, are true and accurate. This signed AB 1420 Self-Certification Statement Table 1 and Table 2 are the basis for granting funds by the Funding Agency. Falsification and/or inaccuracies in AB 1420 Self-Certification Statement Table 1 and Table 2, and in any supporting documents substantiating such claims may, at the discretion of the funding agency, result in loss of all State funds to the applicant. Additionally, the Funding Agency, in its sole discretion, may halt disbursement of grant or loan funds, not pay pending invoices, and/or pursue any other applicable legal remedy and refer the matter to the Attorney General's Office.

Name of Signatory Mike Willett Title of Signatory Public Works Director Signature of signatory Michael Willett Date 9/21/2010

Application Date: 9/28/2010

Proposal Identification Number: See Note 3 Below

Applicant Name: City of Patterson

Project Title: Westside-San Joaquin Regional Planning Grant Application

is the UWM Plan Deemed Complete by DWR?

CUWCC Member? Yes Yes/No Yes

Applicant's Contact Information: Name Mike Willett, Mwillet@ci.patterson.ca.us, 209 895 8065

Participants:		Retailer (Last Below)																		
		City of Patterson																		

C1	C2	C3	C4	C5	*C6	C7	C8	**C9	**C10	**C11	C12	C13	C14	C15	C16	C17	C18	C19			
				BMP Implemented by Retailers and/or Wholesalers				Compliance Options / Alternative Conservation Approaches (1)			BMP is Exempt (2)		Implementation Scheduled to Commence within 1st Year of Agreement								
CUWCC required for 2010 Flex Track BMPs	BMPs required for Wholesale Supplier	BMPs required for Retail Supplier	BMPs	Retailer	Wholesaler	Regional	Alternative	BMP Checklist	Flex Track	Gallons Per Capita Per Day GPCD	Not Cost Effective	Lack of Funding	Lack of Legal Authority	Start Date (MM/YR)	Completion Level (%)	BMP Completion Date (MM/YR)	Budget (Dollars)	Funding Source & Finance Plan to Implement BMPs	Meets CUWCC Coverage Yes/No	Funds Requested, if Available. (See AB 1420 Compliance Table 3) Yes/No	
				Yes/No	Yes/No	Yes/No	Yes/No														
1. Utility Operations Programs																					
1.11	✓		BMP 12 Conservation Coordinator	Yes	na	na	no	X						na	100	na	na	water rates	Yes		
1.12		✓	BMP 13 Water Waste Prohibitions	Yes	na	na	no	X						Jul-10	50	na	11-Jul	20000	water rates	Yes	
1.13	✓		BMP 10 Wholesale Agency Assistance Programs	na	na	na	no							na	na	na	na	na	na		
1.20	✓		BMP 3 System Water Audits, Leak Detection/Repair	Yes	na	na	no	X						11-Jul	0		11-Dec	20000	water rates	Yes	
1.30		✓	BMP 4 Meeting with Community Rates for All New/Retrofit of Existing connections	Yes	na	na	no	X						na	100	na	11-Jan	20000	water rates	Yes	
1.40		✓	BMP 11 Conservation Pricing	Yes	na	na	no	X						11-Jan	100		11-Jan	0	water rates	Yes	
2. Educational Programs																					
2.10	✓		BMP 7 Public Information	Yes	na	na	no	X						na	80		12-Jun	5000	water rates	Yes	
2.20	✓	✓	BMP 8 School Education	Yes	na	na	no	X						na	80		12-Jun	5000	water rates	Yes	
3. Residential																					
			BMP 1 Indoor water survey for Single/Multi-Family Residential Customers	Yes	na	na	no	X						11-Jul	1500%		12-Jun	7500	water rates	Yes	
3.11		✓	BMP 1 Outdoor water survey for Single/Multi-Family Residential Customers	Yes	na	na	no	X						11-Jul	0		12-Jul	7500	water rates	Yes	
3.12				Yes	na	na	no	X						11-Jul					Yes		

			BMP Implemented by Retailers and/or Wholesalers			Compliance Options / Alternative Conservation Approaches (1)			BMP is Exempt (2)			Implementation Scheduled to Commence within 1st Year of Agreement								
			Retailer Yes/No	Wholesaler Yes/No	Regional Yes/No	Alternative Conservation Approaches Yes/No	BMP Checklist	Flex Track	Gallons Per Capita Per Day GPCD	Not Cost Effective	Lack of Funding	Lack of Legal Authority	Start Date (MM/YY)	Completion Level (%)	BMP Completion Date (MM/YY)	Budget (Dollars)	Funding Source & Finance Plan to Implement BMPs	Meets CUWCC Coverage Yes/No	Funds Requested, if Available. (See AB 1420 Compliance Table 3) Yes/No	
CUWCC Track BMPs	BMPs required for Wholesale Supplier	BMPs required for Retail Supplier	BMPs																	
3.20		✓	BMP 2 Residential Plumbing Retrofit	Yes	na	na	no	X					11-Jun	0	12-Jul	5000	water rates	Yes		
3.30		✓	BMP 6 High-Efficiency Washing Machine Rebate Programs	Yes	na	na	no	X					11-Jun	0	12-Jul	5000	water rates	Yes		
3.40		✓	BMP 14 Residential ULFT Replacement Programs	Yes	na	na	no	X					11-Jun	0	12-Jul	5000	water rates	Yes		
4. Commercial, Industrial, Institutional																				
			BMP 9 Conservation programs for Commercial, Industrial, and Institutional (CI) Accounts																	
4.00		✓		Yes	na	na	no	X						11-Jun	0	12-Jul	10000	water rates	Yes	
5. Landscape																				
			BMP 5 Large Landscape Conservation Programs and Incentives																	
5.00		✓		Yes	na	na	no	X						11-Jun	0	12-Jul	10000	water rates	Yes	

* C6: Wholesaler may also be a retailer (supplying water to end water users)
 ** C9, ** C10, and ** C11: Agencies choosing an alternative conservation approach are responsible for achieving water savings equal or greater than that which they would have achieved using only BMP list.
 (1) For details, please see <http://www.cuwcc.org/mou/exhibit-1-bmp-definitions-schedules-requirements.aspx>.
 (2) BMP is exempt based on cost-effectiveness, lack of funding, or lack of legal authority, as detailed in the CUWCC MOU.
 (3) This is supplemental information requested for Prop 84 IRWMP funding proposal submitted by San Luis Delta Mendota Water Authority, with City of Patterson as a participant. SLDMWA Tax ID: 517171350

Reported as of 9/23/10

Water Supply & Reuse

Reporting Unit:
City of Patterson

Year:
2007

Water Supply Source Information

Supply Source Name	Quantity (AF) Supplied	Supply Type
Well No. 2	303	Groundwater
Well No. 5	790	Groundwater
Well No. 6	441	Groundwater
Well No. 7	1805	Groundwater
Well No. 8	305	Groundwater
Well No. 4	22	Groundwater
Well No. 11	723	Groundwater

Total AF: 4389

Reported as of 9/23/10

Accounts & Water Use

Reporting Unit Name:

Pending CC Review

Year:

City of Patterson**03/01/2009****2007****A. Service Area Population Information:**

1. Total service area population

20770

B. Number of Accounts and Water Deliveries (AF)

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	5434	2972	25	15
2. Multi-Family	0	0	0	0
3. Commercial	335	1063	0	0
4. Industrial	1	0	0	0
5. Institutional	0	0	0	0
6. Dedicated Irrigation	47	3	0	0
7. Recycled Water	0	0	0	0
8. Other	0	0	0	0
9. Unaccounted	NA	0	NA	0
Total	5817	4038	25	15
	Metered		Unmetered	

Reported as of 9/23/10

BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:

City of Patterson

BMP Form Status:

100% Complete

Year:

2007

A. Implementation

1. Based on your signed MOU date, 12/08/1997, your Agency STRATEGY DUE DATE is: 12/08/1999

2. Has your agency developed and implemented a targeting/ marketing strategy for SINGLE-FAMILY residential water use surveys? no

a. If YES, when was it implemented?

3. Has your agency developed and implemented a targeting/ marketing strategy for MULTI-FAMILY residential water use surveys? no

a. If YES, when was it implemented?

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	0	0
2. Number of surveys completed:	0	0

Indoor Survey:

3. Check for leaks, including toilets, faucets and meter checks no no

4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary no no

5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary no no

Outdoor Survey:

6. Check irrigation system and timers no no

7. Review or develop customer irrigation schedule no no

8. Measure landscaped area (Recommended but not required for surveys) no no

9. Measure total irrigable area (Recommended but not required for surveys) no no

10. Which measurement method is typically used (Recommended but not required for surveys) None

11. Were customers provided with information packets that included evaluation results and water savings recommendations? no no

12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? no no

a. If yes, in what form are surveys tracked? None

b. Describe how your agency tracks this information.

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Nearly all SF and MF accounts are metered and read on a monthly basis. A new increasing block tier rate was implemented 3 years ago to encourage conservation. High water usage reports are generated for those accounts showing higher than typical usage and are provided to the customers. The customers are advised of their higher usage and provided information to help minimize their usage and offer to have a field representative perform a leakage test on their service. Note: Water use per capita in the City of Patterson is approximately 180 gpcd (total system use/population), substantially less than the statewide average of 244 gpcd, communities of similar climate (i.e. Fresno and Bakersfield at 250 gpcd and 350 gpcd, per DWR 160-98). As such, the City of Patterson is meeting statewide conservation goals and the added expense of certain BMP's are not cost effective.

Reported as of 9/23/10

BMP 02: Residential Plumbing Retrofit

Reporting Unit:

City of Patterson

BMP Form Status:

100% Complete

Year:

2007**A. Implementation**

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? no
 - a. If YES, list local jurisdictions in your service area and code or ordinance in each:
2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no
3. Estimated percent of single-family households with low-flow showerheads: 56%
4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? no
5. Estimated percent of multi-family households with low-flow showerheads: 56%
6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? no
 - a. If YES, when did your agency begin implementing this strategy?
 - b. Describe your targeting/ marketing strategy.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	0	0
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	0	0
5. Number of faucet aerators distributed:	0	0
6. Does your agency track the distribution and cost of low-flow devices?		no
a. If YES, in what format are low-flow devices tracked?		
b. If yes, describe your tracking and distribution system :		

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

The City of Patterson's major population increase was after 1992 when low flow plumbing devices were mandatory. Population increased from 9,200 persons in 1992 to 20,773 persons in 2007. As such, 56% of the

City residential customers have low flow devices. This number will continue to increase as population increases. Since per capita use is significantly lower than other municipalities in the Central Valley, an aggressive low flow device campaign is not likely cost effective. If the City achieves a 75% saturation, and assuming a 5% average reduction in water use due to low flow fixtures, the City could expect a reduction in the total system demand of approximately 25 gpm, or 0.9% of total system use.

Reported as of 9/23/10

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2007****A. Implementation**

1. Does your agency own or operate a water distribution system? yes
2. Has your agency completed a pre-screening system audit for this reporting year? no
3. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
 - a. Determine metered sales (AF) 4035
 - b. Determine other system verifiable uses (AF) 75
 - c. Determine total supply into the system (AF) 4505
 - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.91
4. Does your agency keep necessary data on file to verify the values entered in question 3? yes
5. Did your agency complete a full-scale audit during this report year? no
6. Does your agency maintain in-house records of audit results or completed AWWA M36 audit worksheets for the completed audit which could be forwarded to CUWCC? no
7. Does your agency operate a system leak detection program? yes
 - a. If yes, describe the leak detection program:

If abnormal high usage is detected, feild staff completes an evaluation to determine if there is a leak, then advises customer.

B. Survey Data

1. Total number of miles of distribution system line. 72
2. Number of miles of distribution system line surveyed. 0

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

The City has implemented a Leak Detection and Repair Protocol that is triggered by the identification of a potential problem by either the City's meter reader or the customer. Once reported, the City will investigate the service connection and meter to determine the source of the problem. The City will make any repairs, as necessary, or advise the customer if it is on the customer's side of the meter. The City has a Water Pipeline Replacement Program to replace older water pipelines within the City that may be leaking, are undersized, or made from inferior materials.

Voluntary Questions (Not used to calculate compliance)**E. Volumes**

Estimated	Verified
------------------	-----------------

1. Volume of raw water supplied to the system:
2. Volume treated water supplied into the system:
3. Volume of water exported from the system:
4. Volume of billed authorized metered consumption:
5. Volume of billed authorized unmetered consumption:
6. Volume of unbilled authorized metered consumption:
7. Volume of unbilled authorized unmetered consumption:

F. Infrastructure and Hydraulics

1. System input (source or master meter) volumes metered at the entry to the:
2. How frequently are they tested and calibrated?
3. Length of mains:
4. What % of distribution mains are rigid pipes (metal, ac, concrete)?
5. Number of service connections:
6. What % of service connections are rigid pipes (metal)?
7. Are residential properties fully metered?
8. Are non-residential properties fully metered?
9. Provide an estimate of customer meter under-registration:
10. Average length of customer service line from the main to the point of the meter:
11. Average system pressure:
12. Range of system pressures:

From to

13. What percentage of the system is fed from gravity feed?
14. What percentage of the system is fed by pumping and re-pumping?

G. Maintenance Questions

1. Who is responsible for providing, testing, repairing and replacing customer meters?
2. Does your agency test, repair and replace your meters on a regular timed schedule?
 - a. If yes, does your agency test by meter size or customer category?:
 - Less than or equal to 1"
 - 1.5" to 2"
 - 3" and Larger
 - b. If yes to meter size, please provide the frequency of testing by meter size:
 - c. If yes to customer category, provide the frequency of testing by customer category:
 - SF residential
 - MF residential

Commercial

Industrial & Institutional

3. Who is responsible for repairs to the customer lateral or customer service line?
4. Who is responsible for service line repairs downstream of the customer meter?
5. Does your agency proactively search for leaks using leak survey techniques or does your utility reactively repair leaks which are called in, or both?
6. What is the utility budget breakdown for:

Leak Detection	\$
Leak Repair	\$
Auditing and Water Loss Evaluation	\$
Meter Testing	\$

H. Comments

Reported as of 9/23/10

BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit:
City of Patterson

BMP Form Status:
100% Complete

Year:
2007

A. Implementation

1. Does your agency have any unmetered service connections? Yes
 - a. If YES, has your agency completed a meter retrofit plan? No
 - b. If YES, number of previously unmetered accounts fitted with meters during report year: 0
2. Are all new service connections being metered and billed by volume of use? Yes
3. Are all new service connections being billed volumetrically with meters? Yes
4. Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters? No
5. Please fill out the following matrix:

Account Type	Number of Metered Accounts	Number of Metered Accounts Read	Number of Metered Accounts Billed by Volume	Billing Frequency Per Year	Number of Volume Estimates
a. Single Family	5434	5434	5434	12	0
b. Multi-Family	0	0	0	0	0
c. Commercial	335	335	335	12	0
d. Industrial	1	1	1	12	0
e. Institutional	0	0	0	0	0
f. Landscape Irrigation	47	47	47	12	0

B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no
 - a. If YES, when was the feasibility study conducted? (mm/dd/yy)
 - b. Describe the feasibility study:
2. Number of CII accounts with mixed-use meters: 0
3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? yes
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."
All services are to be metered by 2015. Most larger commercial services will be provided with non-potable water in the near future as the City has initiated a non-potable water supply program.

D. Comments

Reported as of 9/23/10

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
City of Patterson

BMP Form Status:
100% Complete

Year:
2007

A. Water Use Budgets

- | | |
|--|----|
| 1. Number of Dedicated Irrigation Meter Accounts: | 47 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 0 |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF) during reporting year: | 0 |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF) during reporting year: | 0 |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | no |

B. Landscape Surveys

- | | |
|--|----|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys? | no |
| a. If YES, when did your agency begin implementing this strategy? | |
| b. Description of marketing / targeting strategy: | |
| 2. Number of Surveys Offered during reporting year. | 0 |
| 3. Number of Surveys Completed during reporting year. | 0 |
| 4. Indicate which of the following Landscape Elements are part of your survey: | |
| a. Irrigation System Check | no |
| b. Distribution Uniformity Analysis | no |
| c. Review / Develop Irrigation Schedules | no |
| d. Measure Landscape Area | no |
| e. Measure Total Irrigable Area | no |
| f. Provide Customer Report / Information | no |
| 5. Do you track survey offers and results? | no |
| 6. Does your agency provide follow-up surveys for previously completed surveys? | no |
| a. If YES, describe below: | |

C. Other BMP 5 Actions

- | | |
|---|----|
| 1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey program. Does your agency provide mixed-use accounts with landscape budgets? | no |
| 2. Number of CII mixed-use accounts with landscape budgets. | 0 |
| Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. (From BMP 4 report) | 0 |
| Total number of change-outs from mixed-use to dedicated irrigation meters since Base Year. | |

3. Do you offer landscape irrigation training? no
4. Does your agency offer financial incentives to improve landscape water use efficiency? no

Type of Financial Incentive:	Budget (Dollars/Year)	Number Awarded to Customers	Total Amount Awarded
a. Rebates	0	0	0
b. Loans	0	0	0
c. Grants	0	0	0

5. Do you provide landscape water use efficiency information to new customers and customers changing services? No

a. If YES, describe below:

6. Do you have irrigated landscaping at your facilities? yes
- a. If yes, is it water-efficient? yes
- b. If yes, does it have dedicated irrigation metering? yes
7. Do you provide customer notices at the start of the irrigation season? no
8. Do you provide customer notices at the end of the irrigation season? no

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
- a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

The City of Patterson is implementing a new non-potable water program which targets large landscape use demands, including parks, schools, and commercial developments. Water supply will be from non-potable sources, such as groundwater with high nitrates and reclaimed water. As part of the program, the City will closely monitor use at each connection.

Reported as of 9/23/10

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:
City of Patterson

BMP Form Status:
100% Complete

Year:
2007

A. Coverage Goal

	Single Family	Multi-Family
1. Number of residential dwelling units in the agency service area.	4,960	120
2. Coverage Goal =	= 390 Points	

B. Implementation

1. Does your agency offer rebates for **residential** high-efficiency washers? no

HEW Water Factor	Number of Financial Incentives Issued	Total Value of Financial Incentives			TOTAL	POINTS AWARDED
		Retail Water Agency	Wholesaler/ Grants (if applicable)	Energy Utility (if applicable)		
2. Greater than 8.5 but not exceeding 9.5 (1 point)		\$ 0	\$ 0	\$ 0	\$ 0	
3. Greater than 6.0 but not exceeding 8.5 (2 points)		\$ 0	\$ 0	\$ 0	\$ 0	
4. Less than or equal to 6.0 (3 points)		\$ 0	\$ 0	\$ 0	\$ 0	
TOTALS:		\$ 0	\$ 0	\$ 0	\$ 0	0

C. Past Credit Points

For HEW incentives issued before July 1, 2004, select ONE of the following TWO options:

- Method One: Points based on HEW Water Factor
- Method Two: Agency earns 1 point for each HEW.

PAST CREDIT TOTALS:	0	\$ 0	0
----------------------------	----------	-------------	----------

D. Rebate Program Expenditures

1. Average or Estimated Administration and Overhead \$ 0
2. Is the financial incentive offered per HEW at least equal to the marginal benefits of the water savings per HEW? no

E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
- a. If YES, please explain in detail how your implementation of this BMP

differs from Exhibit 1 and why you consider it to be "at least as effective as."

F. Comments

Reported as of 9/23/10

BMP 07: Public Information Programs

Reporting Unit:

City of Patterson

BMP Form Status:

100% Complete

Year:

2007**A. Implementation**

1. How is your public information program implemented?

Retailer runs program without wholesaler sponsorship

2. Describe the program and how it's organized:

The City produces a newsletter that is mailed to all City residents each quarter. The newsletter includes a section about water use, describing water use restrictions and providing water conservation tips. The City also provides a "Welcome" package to all new residents that provides information on City services and City policies and regulations. Water use restrictions and requirements are explained in this introductory package.

3. Indicate which and how many of the following activities are included in your public information program:

Public Information Program Activity in Retail Service Area	Yes/No	Number of Events
a. Paid Advertising	no	
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	4
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	no	
f. Special Events, Media Events	no	
g. Speaker's Bureau	no	
h. Program to coordinate with other government agencies, industry and public interest groups and media	no	

B. Conservation Information Program Expenditures

1. Annual Expenditures (Excluding Staffing)

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The City produces a newsletter that is mailed to all City residents each quarter. The newsletter includes a section about water use, describing water use restrictions and providing water conservation tips. The City also provides a "Welcome" package to all new residents that provides information on City services and City policies and regulations. Water use restrictions and requirements are explained in this introductory package.

D. Comments

Reported as of 9/23/10

BMP 08: School Education Programs

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2007****A. Implementation**

1. How is your public information program implemented?

No public information program being implemented

2. Please provide information on your region-wide school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
--------------	---	-----------------------------------	--------------------------------	-----------------------------------

Grades

K-3rd

Grades

4th-6th

Grades

7th-8th

High

School

4. Did your Agency's materials meet state education framework requirements?

5. When did your Agency begin implementing this program?

B. School Education Program Expenditures

1. Annual Expenditures (Excluding Staffing)

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 9/23/10

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2007****A. Implementation**

- | | |
|--|-----|
| 1. Has your agency identified and ranked COMMERCIAL customers according to use? | yes |
| 2. Has your agency identified and ranked INDUSTRIAL customers according to use? | yes |
| 3. Has your agency identified and ranked INSTITUTIONAL customers according to use? | no |

Option A: CII Water Use Survey and Customer Incentives Program

- | | |
|--|----|
| 4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? If so, please describe activity during reporting period: | no |
|--|----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	0	0	0
b. Number of New Surveys Completed	0	0	0
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)	0	0	0
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)	0	0	0
CII Survey Components	Commercial Accounts	Industrial Accounts	Institutional Accounts
e. Site Visit	no	no	no
f. Evaluation of all water-using apparatus and processes	no	no	no
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	no	no	no
Agency CII Customer Incentives	Budget (\$/Year)	# Awarded to Customers	Total \$ Amount Awarded
h. Rebates	0	0	0
i. Loans	0	0	0
j. Grants	0	0	0
k. Others	0	0	0

Option B: CII Conservation Program Targets

- | | |
|---|----|
| 5. Does your agency track CII program interventions and water | no |
|---|----|

savings for the purpose of complying with BMP 9 under this option?

6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? no

7. **System Calculated** annual savings (AF/yr):

CII Programs	Avg Savings (AF/yr)	# Device Installations	Annual Savings/Program (AF/yr)
a. Ultra Low Flush Toilets	.035004		0
b. Dual Flush Toilets	.041748		0
c. High Efficiency Toilets	.041748		0
d. High-Efficiency Urinals	.069086		0
e. Non-Water Urinals	.0921146		0
f. Commercial Clothes Washers (only coin-op; not industrial)	.116618		0
g. Cooling Tower Conductivity Controllers	1.03225		0
h. Food Steamers	.25		0
i. Ice Machines	.834507		0
j. Pre-Rinse Spray Valves	.084701		0
k. Steam Sterilizer Retrofits	1.538		0
l. X-ray Film Processors	2.57		0
Total System Calculated Savings:			0

8. **Estimated** annual savings (AF/yr) from agency programs not including the devices listed in Option B. 7., above:

CII Programs	Annual Savings (AF/yr)
a. Site-verified actions taken by agency:	
b. Non-site-verified actions taken by agency*:	(x 25%)

*Note: Agencies may credit **100%** of estimated annual savings of interventions that have been site verified and **25%** of estimated annual savings of interventions that have not been site verified. (BMP 9 E.4.c.)

TOTAL CII Program Performance Target Savings: 0

B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

CII accounts make up a small percent of the demands (approximately 7% of services). A non-potable system is being implemented to provide irrigation water to many of these accounts in the near future.

Reported as of 9/23/10

BMP 11: Conservation Pricing

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2007****A. Implementation****Water Service Rate Structure Data by Customer Class****1. Single Family Residential**

a. Rate Structure	Increasing Block
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 1,526,185
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$,536,652

2. Multi-Family Residential

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

3. Commercial

a. Rate Structure	Increasing Block
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 875,716
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 75,869

4. Industrial

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

5. Institutional / Government

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

6. Dedicated Irrigation (potable)

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

7. Recycled-Reclaimed

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

8. Raw

- | | |
|--|----------------------|
| a. Rate Structure | Service Not Provided |
| b. Total Revenue from Commodity Charges (Volumetric Rates) | \$ 0 |
| c. Total Revenue from Customer Meter/Service (Fixed) Charges | \$ 0 |

9. Other

- | | |
|--|----------------------|
| a. Rate Structure | Service Not Provided |
| b. Total Revenue from Commodity Charges (Volumetric Rates) | \$ 0 |
| c. Total Revenue from Customer Meter/Service (Fixed) Charges | \$ 0 |

B. Implementation Options**Select Either Option 1 or Option 2:****1. Option 1: Use Annual Revenue As Reported**

$$V/(V+M) \geq 70\%$$

V = Total annual revenue from volumetric rates

M = Total annual revenue from customer meter/service (fixed) charges

Selected

2. Option 2: Use Canadian Water & Wastewater Association Rate Design Model

$$V/(V+M) \geq V'/(V'+M')$$

V = Total annual revenue from volumetric rates

M = Total annual revenue from customer meter/service (fixed) charges

V' = The uniform volume rate based on the signatory's long-run incremental cost of service

M' = The associated meter charge

a. If you selected Option 2, has your agency submitted to the Council a completed Canadian Water & Wastewater Association rate design model?

b. Value for **V'** (uniform volume rate based on agency's long-run incremental cost of service) as determined by the Canadian Water & Wastewater Association rate design model:

c. Value for **M'** (meter charge associated with V' uniform volume rate) as determined by the Canadian Water & Wastewater Association rate design model:

C. Retail Wastewater (Sewer) Rate Structure Data by Customer Class

1. Does your agency provide sewer service? (If YES, answer questions 2 - 7 below, else continue to section D.) yes

2. Single Family Residential

- | | |
|--|--------------------------|
| a. Sewer Rate Structure | Non-volumetric Flat Rate |
| b. Total Annual Revenue | \$ 135,143 |
| c. Total Revenue from Commodity Charges (Volumetric Rates) | \$ 0 |

3. Multi-Family Residential

- | | |
|-------------------------|--------------------------|
| a. Sewer Rate Structure | Non-volumetric Flat Rate |
| b. Total Annual Revenue | \$ 0 |

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

4. Commercial

a. Sewer Rate Structure Non-volumetric Flat Rate

b. Total Annual Revenue \$ 8,331

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

5. Industrial

a. Sewer Rate Structure Service Not Provided

b. Total Annual Revenue \$ 0

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

6. Institutional / Government

a. Sewer Rate Structure Service Not Provided

b. Total Annual Revenue \$ 0

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

7. Recycled-reclaimed water

a. Sewer Rate Structure Service Not Provided

b. Total Annual Revenue \$ 0

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

D. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

Increasing teired rate encourages water conservation. Program is effective due to low water consumption and sewer discharge volumes.

E. Comments

Reported as of 9/23/10

BMP 12: Conservation Coordinator

Reporting Unit:

City of Patterson

BMP Form Status:

100% Complete

Year:

2007**A. Implementation**

1. Does your Agency have a conservation coordinator? yes
2. Is a coordinator position supplied by another agency with which you cooperate in a regional conservation program ? no
 - a. Partner agency's name: na
3. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 50%
 - b. Coordinator's Name Sonia Delgado
 - c. Coordinator's Title Administrative Manager
 - d. Coordinator's Experience in Number of Years 5 years
 - e. Date Coordinator's position was created (mm/dd/yyyy) 7/01/2003
4. Number of conservation staff (FTEs), including Conservation Coordinator. 2

B. Conservation Staff Program Expenditures

1. Staffing Expenditures (In-house Only) 0
2. BMP Program Implementation Expenditures 0

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? yes
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The Conservation Coordinator position was filled in 7/01/03. This position was created as a part-time position and the salary is paid 50% out of Water Funds and 50% out of Sewer Funds. The total Salary paid is \$37,992 (\$18,996 each). The person hired to fill this position was Paul Creighton and his title was Regulatory Compliance Coordinator. However he was only in the position for less than a year (Ended 6/18/04). Since then on September 04, Sonia Delgado, Management Analyst took over. Part of the job duties for my new title included water conservation. Again, this is a part-time position that combines Water Conservation, SWPPP (Storm Water Pollution Prevention Pollution), Recycling and other duties. However October, 2006 Sonia Delgado was promoted to Administrative Manager. Since then the City performed a recruitment to fill the Management Analyst position. The City has hired a person to work on Water Conservation and her start date is 3/14/07.

D. Comments

Reported as of 9/23/10

BMP 13: Water Waste Prohibition

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2007****A. Requirements for Documenting BMP Implementation**

1. Is a water waste prohibition ordinance in effect in your service area? yes

a. If YES, describe the ordinance:

Prohibits watering between 10:00 a.m. and 7:00 p.m. Outdoor watering allowed only every other day based on even and odd addresses. Requires use of quick-action shutoff hose nozzles for car washing. Prohibits irrigation during rainy or wet periods. Prohibits excessive runoff. Requires new development install underground, automated irrigation systems. Imposes penalties for violations.

2. Is a copy of the most current ordinance(s) on file with CUWCC? yes

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

City of Patterson

City Administrative Code,
Section 13.24.350 to 13.24.400

B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

a. Gutter flooding	yes
b. Single-pass cooling systems for new connections	yes
c. Non-recirculating systems in all new conveyor or car wash systems	no
d. Non-recirculating systems in all new commercial laundry systems	no
e. Non-recirculating systems in all new decorative fountains	no
f. Other, please name	no

2. Describe measures that prohibit water uses listed above:

Additional conditions to prohibit such uses listed above that are not specifically addressed in the City Administrative Code could be added to the planning application or use permit for the above mentioned projects.

Water Softeners:

3. Indicate which of the following measures your agency has supported in developing state law:

a. Allow the sale of more efficient, demand-initiated regenerating DIR models.	yes
b. Develop minimum appliance efficiency standards that:	
i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used.	yes
ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced.	yes
c. Allow local agencies, including municipalities and	

special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. yes

4. Does your agency include water softener checks in home water audit programs? no

5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The Water Waste Prohibitions adopted by the City of Patterson provide effective measures to minimize water waste.

D. Comments

Reported as of 9/23/10

BMP 14: Residential ULFT Replacement Programs

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2007****A. Implementation****Number of Non-Efficient Toilets Replaced With 1.6 gpf Toilets During Report Year**

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no
Replacement Method	SF Accounts	MF Units
2. Rebate	0	0
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
Total	0	0

Number of Non-Efficient Toilets Replaced With 1.28 gpf High-Efficiency Toilets (HETs) During Report Year

	Single-Family Accounts	Multi-Family Units
6. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no
Replacement Method	SF Accounts	MF Units
7. Rebate	0	0
8. Direct Install	0	0
9. CBO Distribution	0	0
10. Other	0	0
Total	0	0

Number of Non-Efficient Toilets Replaced With 1.2 gpf HETs (Dual-Flush) During Report Year

	Single-Family Accounts	Multi-Family Units
11. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no
Replacement Method	SF Accounts	MF Units
12. Rebate	0	0
13. Direct Install	0	0
14. CBO Distribution	0	0
15. Other	0	0
Total	0	0

16. Describe your agency's ULFT, HET, and/or Dual-Flush Toilet programs for

single-family residences.

The City requires that all new residential construction and major remodels install low-flow fixtures. The City provides low-interest loans to qualified homeowners making major home repairs including plumbing retrofits.

17. Describe your agency's ULFT, HET, and/or Dual-Flush Toilet programs for multi-family residences.

The City requires that all new residential construction and major remodels install low-flow fixtures. The City provides low-interest loans to qualified homeowners making major home repairs including plumbing retrofits.

18. Is a toilet retrofit on resale ordinance in effect for your service area? no

19. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures

1. Estimated cost per replacement: \$ 0

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Since most (over 57%) of the population increase was after 1992, most homes and businesses have low flow plumbing fixtures.

Reported as of 9/23/10

Water Supply & ReuseReporting Unit:
City of PattersonYear:
2008**Water Supply Source Information**

Supply Source Name	Quantity (AF) Supplied	Supply Type
Well No. 2	613	Groundwater
Well No. 5	692	Groundwater
Well No. 6	302	Groundwater
Well No. 7	849	Groundwater
Well No. 8	628	Groundwater
Well No. 11	1316	Groundwater

Total AF: 4400

Reported as of 9/23/10

Accounts & Water Use

Reporting Unit Name:

Pending CC Review

Year:

City of Patterson**03/01/2009****2008****A. Service Area Population Information:**

1. Total service area population 21229

B. Number of Accounts and Water Deliveries (AF)

Type	Metered		Unmetered	
	No. of Accounts	Water Deliveries (AF)	No. of Accounts	Water Deliveries (AF)
1. Single-Family	5238	2694	25	15
2. Multi-Family	0	0	0	0
3. Commercial	344	932	0	0
4. Industrial	1	0	0	0
5. Institutional	0	0	0	0
6. Dedicated Irrigation	47	0	0	0
7. Recycled Water	0	0	0	0
8. Other	0	0	0	0
9. Unaccounted	NA	0	NA	0
Total	5630	3626	25	15
	Metered		Unmetered	

Reported as of 9/23/10

BMP 01: Water Survey Programs for Single-Family and Multi-Family Residential Customers

Reporting Unit:

City of Patterson

BMP Form Status:

100% Complete

Year:

2008

A. Implementation

1. Based on your signed MOU date, 12/08/1997, your Agency STRATEGY DUE DATE is: 12/08/1999

2. Has your agency developed and implemented a targeting/ marketing strategy for SINGLE-FAMILY residential water use surveys? no

a. If YES, when was it implemented?

3. Has your agency developed and implemented a targeting/ marketing strategy for MULTI-FAMILY residential water use surveys? no

a. If YES, when was it implemented?

B. Water Survey Data

Survey Counts:	Single Family Accounts	Multi-Family Units
1. Number of surveys offered:	0	0
2. Number of surveys completed:	0	0

Indoor Survey:

3. Check for leaks, including toilets, faucets and meter checks no no

4. Check showerhead flow rates, aerator flow rates, and offer to replace or recommend replacement, if necessary no no

5. Check toilet flow rates and offer to install or recommend installation of displacement device or direct customer to ULFT replacement program, as necessary; replace leaking toilet flapper, as necessary no no

Outdoor Survey:

6. Check irrigation system and timers no no

7. Review or develop customer irrigation schedule no no

8. Measure landscaped area (Recommended but not required for surveys) no no

9. Measure total irrigable area (Recommended but not required for surveys) no no

10. Which measurement method is typically used (Recommended but not required for surveys) None

11. Were customers provided with information packets that included evaluation results and water savings recommendations? no no

12. Have the number of surveys offered and completed, survey results, and survey costs been tracked? no no

a. If yes, in what form are surveys tracked? None

b. Describe how your agency tracks this information.

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Nearly all SF and MF accounts are metered and read on a monthly basis. A new increasing block tier rate was implemented 3 years ago to encourage conservation. High water usage reports are generated for those accounts showing higher than typical usage and are provided to the customers. The customers are advised of their higher usage and provided information to help minimize their usage and offer to have a field representative perform a leakage test on their service. Note: Water use per capita in the City of Patterson is approximately 180 gpcd (total system use/population), substantially less than the statewide average of 244 gpcd, communities of similar climate (i.e. Fresno and Bakersfield at 250 gpcd and 350 gpcd, per DWR 160-98). As such, the City of Patterson is meeting statewide conservation goals and the added expense of certain BMP's are not cost effective.

Reported as of 9/23/10

BMP 02: Residential Plumbing Retrofit

Reporting Unit:

City of Patterson

BMP Form Status:

100% Complete

Year:

2008**A. Implementation**

1. Is there an enforceable ordinance in effect in your service area requiring replacement of high-flow showerheads and other water use fixtures with their low-flow counterparts? no
 - a. If YES, list local jurisdictions in your service area and code or ordinance in each:
2. Has your agency satisfied the 75% saturation requirement for single-family housing units? no
3. Estimated percent of single-family households with low-flow showerheads: 57%
4. Has your agency satisfied the 75% saturation requirement for multi-family housing units? no
5. Estimated percent of multi-family households with low-flow showerheads: 57%
6. If YES to 2 OR 4 above, please describe how saturation was determined, including the dates and results of any survey research.

B. Low-Flow Device Distribution Information

1. Has your agency developed a targeting/ marketing strategy for distributing low-flow devices? no
 - a. If YES, when did your agency begin implementing this strategy?
 - b. Describe your targeting/ marketing strategy.

Low-Flow Devices Distributed/ Installed	SF Accounts	MF Units
2. Number of low-flow showerheads distributed:	0	0
3. Number of toilet-displacement devices distributed:	0	0
4. Number of toilet flappers distributed:	0	0
5. Number of faucet aerators distributed:	0	0
6. Does your agency track the distribution and cost of low-flow devices?		no
a. If YES, in what format are low-flow devices tracked?		
b. If yes, describe your tracking and distribution system :		

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

The City of Patterson's major population increase was after 1992 when low flow plumbing devices were mandatory. Population increased from 9,200 persons in 1992 to 21,229 persons in 2008. As such, 57% of the

City residential customers have low flow devices. This number will continue to increase as population increases. Since per capita use is significantly lower than other municipalities in the Central Valley, an aggressive low flow device campaign is not likely cost effective. If the City achieves a 75% saturation, and assuming a 5% average reduction in water use due to low flow fixtures, the City could expect a reduction in the total system demand of approximately 24 gpm, or 0.8% of total system use.

Reported as of 9/23/10

BMP 03: System Water Audits, Leak Detection and Repair

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2008****A. Implementation**

1. Does your agency own or operate a water distribution system? yes
2. Has your agency completed a pre-screening system audit for this reporting year? no
3. If YES, enter the values (AF/Year) used to calculate verifiable use as a percent of total production:
 - a. Determine metered sales (AF) 3464
 - b. Determine other system verifiable uses (AF) 75
 - c. Determine total supply into the system (AF) 4171
 - d. Using the numbers above, if (Metered Sales + Other Verifiable Uses) / Total Supply is < 0.9 then a full-scale system audit is required. 0.85
4. Does your agency keep necessary data on file to verify the values entered in question 3? yes
5. Did your agency complete a full-scale audit during this report year? no
6. Does your agency maintain in-house records of audit results or completed AWWA M36 audit worksheets for the completed audit which could be forwarded to CUWCC? no
7. Does your agency operate a system leak detection program? yes
 - a. If yes, describe the leak detection program:

If abnormal high usage is detected, feild staff completes an evaluation to determine if there is a leak, then advises customer.

B. Survey Data

1. Total number of miles of distribution system line. 72
2. Number of miles of distribution system line surveyed. 0

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? No
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

The City has implemented a Leak Detection and Repair Protocol that is triggered by the identification of a potential problem by either the City's meter reader or the customer. Once reported, the City will investigate the service connection and meter to determine the source of the problem. The City will make any repairs, as necessary, or advise the customer if it is on the customer's side of the meter. The City has a Water Pipeline Replacement Program to replace older water pipelines within the City that may be leaking, are undersized, or made from inferior materials

Voluntary Questions (Not used to calculate compliance)**E. Volumes**

Estimated	Verified
------------------	-----------------

1. Volume of raw water supplied to the system:
2. Volume treated water supplied into the system:
3. Volume of water exported from the system:
4. Volume of billed authorized metered consumption:
5. Volume of billed authorized unmetered consumption:
6. Volume of unbilled authorized metered consumption:
7. Volume of unbilled authorized unmetered consumption:

F. Infrastructure and Hydraulics

1. System input (source or master meter) volumes metered at the entry to the:
2. How frequently are they tested and calibrated?
3. Length of mains:
4. What % of distribution mains are rigid pipes (metal, ac, concrete)?
5. Number of service connections:
6. What % of service connections are rigid pipes (metal)?
7. Are residential properties fully metered?
8. Are non-residential properties fully metered?
9. Provide an estimate of customer meter under-registration:
10. Average length of customer service line from the main to the point of the meter:
11. Average system pressure:
12. Range of system pressures:

From to

13. What percentage of the system is fed from gravity feed?
14. What percentage of the system is fed by pumping and re-pumping?

G. Maintenance Questions

1. Who is responsible for providing, testing, repairing and replacing customer meters?
2. Does your agency test, repair and replace your meters on a regular timed schedule?
 - a. If yes, does your agency test by meter size or customer category?:
 - Less than or equal to 1"
 - 1.5" to 2"
 - 3" and Larger
 - b. If yes to meter size, please provide the frequency of testing by meter size:
 - c. If yes to customer category, provide the frequency of testing by customer category:
 - SF residential
 - MF residential

Commercial

Industrial & Institutional

3. Who is responsible for repairs to the customer lateral or customer service line?
4. Who is responsible for service line repairs downstream of the customer meter?
5. Does your agency proactively search for leaks using leak survey techniques or does your utility reactively repair leaks which are called in, or both?
6. What is the utility budget breakdown for:

Leak Detection	\$
Leak Repair	\$
Auditing and Water Loss Evaluation	\$
Meter Testing	\$

H. Comments

Reported as of 9/23/10

BMP 04: Metering with Commodity Rates for all New Connections and Retrofit of Existing

Reporting Unit:
City of Patterson

BMP Form Status:
100% Complete

Year:
2008

A. Implementation

1. Does your agency have any unmetered service connections? Yes
 - a. If YES, has your agency completed a meter retrofit plan? No
 - b. If YES, number of previously unmetered accounts fitted with meters during report year: 0
2. Are all new service connections being metered and billed by volume of use? Yes
3. Are all new service connections being billed volumetrically with meters? Yes
4. Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters? No
5. Please fill out the following matrix:

Account Type	Number of Metered Accounts	Number of Metered Accounts Read	Number of Metered Accounts Billed by Volume	Billing Frequency Per Year	Number of Volume Estimates
a. Single Family	5238	5238	5238	12	0
b. Multi-Family	0	0	0	0	0
c. Commercial	344	344	344	12	0
d. Industrial	1	1	1	12	0
e. Institutional	0	0	0	0	0
f. Landscape Irrigation	47	47	47	12	0

B. Feasibility Study

1. Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? no
 - a. If YES, when was the feasibility study conducted? (mm/dd/yy)
 - b. Describe the feasibility study:
2. Number of CII accounts with mixed-use meters: 0
3. Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. 0

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? yes
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."
All services are to be metered by 2015. Most larger commercial services will be provided with non-potable water in the near future as the City has initiated a non-potable water supply program.

D. Comments

Reported as of 9/23/10

BMP 05: Large Landscape Conservation Programs and Incentives

Reporting Unit:
City of Patterson

BMP Form Status:
100% Complete

Year:
2008

A. Water Use Budgets

- | | |
|--|----|
| 1. Number of Dedicated Irrigation Meter Accounts: | 47 |
| 2. Number of Dedicated Irrigation Meter Accounts with Water Budgets: | 0 |
| 3. Budgeted Use for Irrigation Meter Accounts with Water Budgets (AF) during reporting year: | 0 |
| 4. Actual Use for Irrigation Meter Accounts with Water Budgets (AF) during reporting year: | 0 |
| 5. Does your agency provide water use notices to accounts with budgets each billing cycle? | no |

B. Landscape Surveys

- | | |
|--|----|
| 1. Has your agency developed a marketing / targeting strategy for landscape surveys? | no |
| a. If YES, when did your agency begin implementing this strategy? | |
| b. Description of marketing / targeting strategy: | |
| 2. Number of Surveys Offered during reporting year. | 0 |
| 3. Number of Surveys Completed during reporting year. | 0 |
| 4. Indicate which of the following Landscape Elements are part of your survey: | |
| a. Irrigation System Check | no |
| b. Distribution Uniformity Analysis | no |
| c. Review / Develop Irrigation Schedules | no |
| d. Measure Landscape Area | no |
| e. Measure Total Irrigable Area | no |
| f. Provide Customer Report / Information | no |
| 5. Do you track survey offers and results? | no |
| 6. Does your agency provide follow-up surveys for previously completed surveys? | no |
| a. If YES, describe below: | |

C. Other BMP 5 Actions

- | | |
|---|----|
| 1. An agency can provide mixed-use accounts with ETo-based landscape budgets in lieu of a large landscape survey program. Does your agency provide mixed-use accounts with landscape budgets? | no |
| 2. Number of CII mixed-use accounts with landscape budgets. | 0 |
| Number of CII accounts with mixed-use meters retrofitted with dedicated irrigation meters during reporting period. (From BMP 4 report) | 0 |
| Total number of change-outs from mixed-use to dedicated irrigation meters since Base Year. | |

3. Do you offer landscape irrigation training? no
4. Does your agency offer financial incentives to improve landscape water use efficiency? no

Type of Financial Incentive:	Budget (Dollars/Year)	Number Awarded to Customers	Total Amount Awarded
a. Rebates	0	0	0
b. Loans	0	0	0
c. Grants	0	0	0

5. Do you provide landscape water use efficiency information to new customers and customers changing services? No

a. If YES, describe below:

6. Do you have irrigated landscaping at your facilities? yes
- a. If yes, is it water-efficient? yes
- b. If yes, does it have dedicated irrigation metering? yes
7. Do you provide customer notices at the start of the irrigation season? no
8. Do you provide customer notices at the end of the irrigation season? no

D. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? No
- a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

E. Comments

The City of Patterson is implementing a new non-potable water program which targets large landscape use demands, including parks, schools, and commercial developments. Water supply will be from non-potable sources, such as groundwater with high nitrates and reclaimed water. As part of the program, the City will closely monitor use at each connection.

Reported as of 9/23/10

BMP 06: High-Efficiency Washing Machine Rebate Programs

Reporting Unit:
City of Patterson

BMP Form Status:
100% Complete

Year:
2008

A. Coverage Goal

	Single Family	Multi-Family
1. Number of residential dwelling units in the agency service area.	4,960	120
2. Coverage Goal =	= 390 Points	

B. Implementation

1. Does your agency offer rebates for **residential** high-efficiency washers? no

HEW Water Factor	Total Value of Financial Incentives				TOTAL	POINTS AWARDED
	Number of Financial Incentives Issued	Retail Water Agency	Wholesaler/ Grants (if applicable)	Energy Utility (if applicable)		
2. Greater than 8.5 but not exceeding 9.5 (1 point)		\$ 0	\$ 0	\$ 0	\$ 0	
3. Greater than 6.0 but not exceeding 8.5 (2 points)		\$ 0	\$ 0	\$ 0	\$ 0	
4. Less than or equal to 6.0 (3 points)		\$ 0	\$ 0	\$ 0	\$ 0	
TOTALS:		\$ 0	\$ 0	\$ 0	\$ 0	0

C. Past Credit Points

For HEW incentives issued before July 1, 2004, select ONE of the following TWO options:

- Method One: Points based on HEW Water Factor
- Method Two: Agency earns 1 point for each HEW.

PAST CREDIT TOTALS:	0	\$ 0	0
----------------------------	----------	-------------	----------

D. Rebate Program Expenditures

1. Average or Estimated Administration and Overhead	\$ 0
2. Is the financial incentive offered per HEW at least equal to the marginal benefits of the water savings per HEW?	no

E. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no
- a. If YES, please explain in detail how your implementation of this BMP

differs from Exhibit 1 and why you consider it to be "at least as effective as."

F. Comments

Reported as of 9/23/10

BMP 07: Public Information Programs

Reporting Unit:

City of Patterson

BMP Form Status:

100% Complete

Year:

2008**A. Implementation**

1. How is your public information program implemented?

Retailer runs program without wholesaler sponsorship

2. Describe the program and how it's organized:

The City produces a newsletter that is mailed to all City residents each quarter. The newsletter includes a section about water use, describing water use restrictions and providing water conservation tips. The City also provides a "Welcome" package to all new residents that provides information on City services and City policies and regulations. Water use restrictions and requirements are explained in this introductory package.

3. Indicate which and how many of the following activities are included in your public information program:

Public Information Program Activity in Retail Service Area	Yes/No	Number of Events
a. Paid Advertising	no	
b. Public Service Announcement	no	
c. Bill Inserts / Newsletters / Brochures	yes	4
d. Bill showing water usage in comparison to previous year's usage	no	
e. Demonstration Gardens	no	
f. Special Events, Media Events	no	
g. Speaker's Bureau	no	
h. Program to coordinate with other government agencies, industry and public interest groups and media	no	

B. Conservation Information Program Expenditures

1. Annual Expenditures (Excluding Staffing)

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The City produces a newsletter that is mailed to all City residents each quarter. The newsletter includes a section about water use, describing water use restrictions and providing water conservation tips. The City also provides a "Welcome" package to all new residents that provides information on City services and City policies and regulations. Water use restrictions and requirements are explained in this introductory package.

D. Comments

Reported as of 9/23/10

BMP 08: School Education Programs

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2008****A. Implementation**

1. How is your public information program implemented?

No public information program being implemented

2. Please provide information on your region-wide school programs (by grade level):

Grade	Are grade-appropriate materials distributed?	No. of class presentations	No. of students reached	No. of teachers' workshops
--------------	---	-----------------------------------	--------------------------------	-----------------------------------

Grades

K-3rd

Grades

4th-6th

Grades

7th-8th

High

School

4. Did your Agency's materials meet state education framework requirements?

5. When did your Agency begin implementing this program?

B. School Education Program Expenditures

1. Annual Expenditures (Excluding Staffing)

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP?

No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Reported as of 9/23/10

BMP 09: Conservation Programs for CII Accounts

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2008****A. Implementation**

- | | |
|--|-----|
| 1. Has your agency identified and ranked COMMERCIAL customers according to use? | yes |
| 2. Has your agency identified and ranked INDUSTRIAL customers according to use? | yes |
| 3. Has your agency identified and ranked INSTITUTIONAL customers according to use? | no |

Option A: CII Water Use Survey and Customer Incentives Program

- | | |
|--|----|
| 4. Is your agency operating a CII water use survey and customer incentives program for the purpose of complying with BMP 9 under this option? If so, please describe activity during reporting period: | no |
|--|----|

CII Surveys	Commercial Accounts	Industrial Accounts	Institutional Accounts
a. Number of New Surveys Offered	0	0	0
b. Number of New Surveys Completed	0	0	0
c. Number of Site Follow-ups of Previous Surveys (within 1 yr)	0	0	0
d. Number of Phone Follow-ups of Previous Surveys (within 1 yr)	0	0	0

CII Survey Components	Commercial Accounts	Industrial Accounts	Institutional Accounts
e. Site Visit	no	no	no
f. Evaluation of all water-using apparatus and processes	no	no	no
g. Customer report identifying recommended efficiency measures, paybacks and agency incentives	no	no	no

Agency CII Customer Incentives	Budget (\$/Year)	# Awarded to Customers	Total \$ Amount Awarded
h. Rebates	0	0	0
i. Loans	0	0	0
j. Grants	0	0	0
k. Others	0	0	0

Option B: CII Conservation Program Targets

- | | |
|---|----|
| 5. Does your agency track CII program interventions and water | no |
|---|----|

savings for the purpose of complying with BMP 9 under this option?

6. Does your agency document and maintain records on how savings were realized and the method of calculation for estimated savings? no

7. **System Calculated** annual savings (AF/yr):

CII Programs	Avg Savings (AF/yr)	# Device Installations	Annual Savings/Program (AF/yr)
a. Ultra Low Flush Toilets	.035004		0
b. Dual Flush Toilets	.041748		0
c. High Efficiency Toilets	.041748		0
d. High-Efficiency Urinals	.069086		0
e. Non-Water Urinals	.0921146		0
f. Commercial Clothes Washers (only coin-op; not industrial)	.116618		0
g. Cooling Tower Conductivity Controllers	1.03225		0
h. Food Steamers	.25		0
i. Ice Machines	.834507		0
j. Pre-Rinse Spray Valves	.084701		0
k. Steam Sterilizer Retrofits	1.538		0
l. X-ray Film Processors	2.57		0
Total System Calculated Savings:			0

8. **Estimated** annual savings (AF/yr) from agency programs not including the devices listed in Option B. 7., above:

CII Programs	Annual Savings (AF/yr)
a. Site-verified actions taken by agency:	
b. Non-site-verified actions taken by agency*:	(x 25%)

*Note: Agencies may credit **100%** of estimated annual savings of interventions that have been site verified and **25%** of estimated annual savings of interventions that have not been site verified. (BMP 9 E.4.c.)

TOTAL CII Program Performance Target Savings: 0

B. Conservation Program Expenditures for CII Accounts

	This Year	Next Year
1. Budgeted Expenditures	0	0
2. Actual Expenditures	0	

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? No

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

CII accounts make up a small percent of the demands (approximately 7% of services). A non-potable system is being implemented to provide irrigation water to many of these accounts in the near future.

Reported as of 9/23/10

BMP 11: Conservation Pricing

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2008****A. Implementation****Water Service Rate Structure Data by Customer Class****1. Single Family Residential**

a. Rate Structure	Increasing Block
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 1,478,527
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$,537,305

2. Multi-Family Residential

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

3. Commercial

a. Rate Structure	Increasing Block
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 826,793
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 79,916

4. Industrial

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

5. Institutional / Government

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

6. Dedicated Irrigation (potable)

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

7. Recycled-Reclaimed

a. Rate Structure	Service Not Provided
b. Total Revenue from Commodity Charges (Volumetric Rates)	\$ 0
c. Total Revenue from Customer Meter/Service (Fixed) Charges	\$ 0

8. Raw

- | | |
|--|----------------------|
| a. Rate Structure | Service Not Provided |
| b. Total Revenue from Commodity Charges (Volumetric Rates) | \$ 0 |
| c. Total Revenue from Customer Meter/Service (Fixed) Charges | \$ 0 |

9. Other

- | | |
|--|----------------------|
| a. Rate Structure | Service Not Provided |
| b. Total Revenue from Commodity Charges (Volumetric Rates) | \$ 0 |
| c. Total Revenue from Customer Meter/Service (Fixed) Charges | \$ 0 |

B. Implementation Options**Select Either Option 1 or Option 2:****1. Option 1: Use Annual Revenue As Reported**

$$V/(V+M) \geq 70\%$$

V = Total annual revenue from volumetric rates

M = Total annual revenue from customer meter/service (fixed) charges

Selected

2. Option 2: Use Canadian Water & Wastewater Association Rate Design Model

$$V/(V+M) \geq V'/(V'+M')$$

V = Total annual revenue from volumetric rates

M = Total annual revenue from customer meter/service (fixed) charges

V' = The uniform volume rate based on the signatory's long-run incremental cost of service

M' = The associated meter charge

a. If you selected Option 2, has your agency submitted to the Council a completed Canadian Water & Wastewater Association rate design model?

b. Value for **V'** (uniform volume rate based on agency's long-run incremental cost of service) as determined by the Canadian Water & Wastewater Association rate design model:

c. Value for **M'** (meter charge associated with V' uniform volume rate) as determined by the Canadian Water & Wastewater Association rate design model:

C. Retail Wastewater (Sewer) Rate Structure Data by Customer Class

1. Does your agency provide sewer service? (If YES, answer questions 2 - 7 below, else continue to section D.) yes

2. Single Family Residential

- | | |
|--|--------------------------|
| a. Sewer Rate Structure | Non-volumetric Flat Rate |
| b. Total Annual Revenue | \$ 130,269 |
| c. Total Revenue from Commodity Charges (Volumetric Rates) | \$ 0 |

3. Multi-Family Residential

- | | |
|-------------------------|----------------------|
| a. Sewer Rate Structure | Service Not Provided |
| b. Total Annual Revenue | \$ 0 |

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

4. Commercial

a. Sewer Rate Structure Non-volumetric Flat Rate

b. Total Annual Revenue \$ 8,580

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

5. Industrial

a. Sewer Rate Structure Service Not Provided

b. Total Annual Revenue \$ 0

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

6. Institutional / Government

a. Sewer Rate Structure Service Not Provided

b. Total Annual Revenue \$ 0

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

7. Recycled-reclaimed water

a. Sewer Rate Structure Service Not Provided

b. Total Annual Revenue \$ 0

c. Total Revenue from
Commodity Charges
(Volumetric Rates) \$ 0

D. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

Increasing teired rate encourages water conservation. Program is effective due to low water consumption and sewer discharge volumes.

E. Comments

Reported as of 9/23/10

BMP 12: Conservation Coordinator

Reporting Unit:

City of Patterson

BMP Form Status:

100% Complete

Year:

2008**A. Implementation**

1. Does your Agency have a conservation coordinator? yes
2. Is a coordinator position supplied by another agency with which you cooperate in a regional conservation program ? no
 - a. Partner agency's name: na
3. If your agency supplies the conservation coordinator:
 - a. What percent is this conservation coordinator's position? 50%
 - b. Coordinator's Name Sonia Delgado
 - c. Coordinator's Title Administrative Manager
 - d. Coordinator's Experience in Number of Years 6 years
 - e. Date Coordinator's position was created (mm/dd/yyyy) 7/01/2003
4. Number of conservation staff (FTEs), including Conservation Coordinator. 2

B. Conservation Staff Program Expenditures

1. Staffing Expenditures (In-house Only) 0
2. BMP Program Implementation Expenditures 0

C. "At Least As Effective As"

1. Is your agency implementing an "at least as effective as" variant of this BMP? yes
 - a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The Conservation Coordinator position was filled in 7/01/03. This position was created as a part-time position and the salary is paid 50% out of Water Funds and 50% out of Sewer Funds. The total Salary paid is \$37,992 (\$18,996 each). The person hired to fill this position was Paul Creighton and his title was Regulatory Compliance Coordinator. However he was only in the position for less than a year (Ended 6/18/04). Since then on September 04, Sonia Delgado, Management Analyst took over. Part of the job duties for my new title included water conservation. Again, this is a part-time position that combines Water Conservation, SWPPP (Storm Water Pollution Prevention Pollution), Recycling and other duties. However October, 2006 Sonia Delgado was promoted to Administrative Manager. Since then the City performed a recruitment to fill the Management Analyst position. The City has hired a person to work on Water Conservation and her start date is 3/14/07.

D. Comments

Reported as of 9/23/10

BMP 13: Water Waste Prohibition

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2008****A. Requirements for Documenting BMP Implementation**

1. Is a water waste prohibition ordinance in effect in your service area? yes

a. If YES, describe the ordinance:

Prohibits watering between 10:00 a.m. and 7:00 p.m. Outdoor watering allowed only every other day based on even and odd addresses. Requires use of quick-action shutoff hose nozzles for car washing. Prohibits irrigation during rainy or wet periods. Prohibits excessive runoff. Requires new development install underground, automated irrigation systems. Imposes penalties for violations.

2. Is a copy of the most current ordinance(s) on file with CUWCC? yes

a. List local jurisdictions in your service area in the first text box and water waste ordinance citations in each jurisdiction in the second text box:

City of Patterson

City Administrative Code,
Section 13.24.350 to 13.24.400

B. Implementation

1. Indicate which of the water uses listed below are prohibited by your agency or service area.

a. Gutter flooding	yes
b. Single-pass cooling systems for new connections	yes
c. Non-recirculating systems in all new conveyor or car wash systems	no
d. Non-recirculating systems in all new commercial laundry systems	no
e. Non-recirculating systems in all new decorative fountains	no
f. Other, please name	no

2. Describe measures that prohibit water uses listed above:

Additional conditions to prohibit such uses listed above that are not specifically addressed in the City Administrative Code could be added to the planning application or use permit for the above mentioned projects.

Water Softeners:

3. Indicate which of the following measures your agency has supported in developing state law:

a. Allow the sale of more efficient, demand-initiated regenerating DIR models.	yes
b. Develop minimum appliance efficiency standards that:	
i.) Increase the regeneration efficiency standard to at least 3,350 grains of hardness removed per pound of common salt used.	yes
ii.) Implement an identified maximum number of gallons discharged per gallon of soft water produced.	yes
c. Allow local agencies, including municipalities and	

special districts, to set more stringent standards and/or to ban on-site regeneration of water softeners if it is demonstrated and found by the agency governing board that there is an adverse effect on the reclaimed water or groundwater supply. yes

4. Does your agency include water softener checks in home water audit programs? no

5. Does your agency include information about DIR and exchange-type water softeners in educational efforts to encourage replacement of less efficient timer models? no

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? yes

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

The Water Waste Prohibitions adopted by the City of Patterson provide effective measures to minimize water waste.

D. Comments

Reported as of 9/23/10

BMP 14: Residential ULFT Replacement Programs

Reporting Unit:

BMP Form Status:

Year:

City of Patterson**100% Complete****2008****A. Implementation****Number of Non-Efficient Toilets Replaced With 1.6 gpf Toilets During Report Year**

	Single-Family Accounts	Multi-Family Units
1. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no
Replacement Method	SF Accounts	MF Units
2. Rebate	0	0
3. Direct Install	0	0
4. CBO Distribution	0	0
5. Other	0	0
Total	0	0

Number of Non-Efficient Toilets Replaced With 1.28 gpf High-Efficiency Toilets (HETs) During Report Year

	Single-Family Accounts	Multi-Family Units
6. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no
Replacement Method	SF Accounts	MF Units
7. Rebate	0	0
8. Direct Install	0	0
9. CBO Distribution	0	0
10. Other	0	0
Total	0	0

Number of Non-Efficient Toilets Replaced With 1.2 gpf HETs (Dual-Flush) During Report Year

	Single-Family Accounts	Multi-Family Units
11. Does your Agency have program(s) for replacing high-water-using toilets with ultra-low flush toilets?	no	no
Replacement Method	SF Accounts	MF Units
12. Rebate	0	0
13. Direct Install	0	0
14. CBO Distribution	0	0
15. Other	0	0
Total	0	0

16. Describe your agency's ULFT, HET, and/or Dual-Flush Toilet programs for

single-family residences.

The City requires that all new residential construction and major remodels install low-flow fixtures. The City provides low-interest loans to qualified homeowners making major home repairs including plumbing retrofits.

17. Describe your agency's ULFT, HET, and/or Dual-Flush Toilet programs for multi-family residences.

The City requires that all new residential construction and major remodels install low-flow fixtures. The City provides low-interest loans to qualified homeowners making major home repairs including plumbing retrofits.

18. Is a toilet retrofit on resale ordinance in effect for your service area? no

19. List local jurisdictions in your service area in the left box and ordinance citations in each jurisdiction in the right box:

B. Residential ULFT Program Expenditures

1. Estimated cost per replacement: \$ 0

C. "At Least As Effective As"

1. Is your AGENCY implementing an "at least as effective as" variant of this BMP? no

a. If YES, please explain in detail how your implementation of this BMP differs from Exhibit 1 and why you consider it to be "at least as effective as."

D. Comments

Since most (over 57%) of the population increase was after 1992, most homes and businesses have low flow plumbing fixtures.